REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

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1. REPORT DATE (DD-MM-YYYY)	2. REPORT TYPE			3. DATES COVERED (From - To)		
11-21-2006	Final			10-May-06 through 30-Sep-06		
4. TITLE AND SUBTITLE			5a. CON	NTRACT NUMBER		
Gordon Research Conference on I	Electrodeposition	•				
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12. DISTRIBUTION/AVAILABILITY ST	FATEMENT					
Approved for Public Release; distr	ribution is Unlimited			•		
13. SUPPLEMENTARY NOTES						
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14. ABSTRACT						
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15. SUBJECT TERMS						
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founded in 1931

Nancy Ryan Gray, Ph.D. Director

Gordon Research Conference on Electrodeposition

FINAL PROGRESS REPORT

ONR N00014-06-1-0803

The Gordon Research Conference (GRC) on Gordon Research Conference on Electrodeposition was held at Colby-Sawyer College, New London, NH from July 30, 2006 through August 4, 2006. The Conference was well-attended with 98 participants (attendees list attached). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both U.S. and foreign scientists, senior researchers, young investigators, and students.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. Attached is a copy of the formal schedule and speaker program and the poster program. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field.

I want to personally thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontierbreaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Professor Jay A. Switzer 2006 Conference Chair

20061127111

Electrodeposition

Participant List

Colby-Sawyer College Jul 30-Aug 4, 2006

Name	Organization	Participation	Status	
PHILIPPE ALLONGUE	CNRS UMR 7643	Discussion Leader	Registered	
ZHI LIANG BAO	SIMON FRASER UNIVERSITY	Poster Presenter	Registered	
CARLOS R BEAUCHAMP	NIST	Attendee	Registered	
UGO BERTOCCI	NIST	Attendee	Registered	
MASSIMILIANO BESTETTI	POLITECNICO DI MILANO	Attendee	Registered	
KALAPI BISWAS	PURDUE UNIVERSITY	Poster Presenter	Registered	
ERIC W BOHANNAN	UNIVERSITY OF MISSOURI - ROLLA	Attendee	Registered	
MEGAN E BOURG	UNIVERSITY OF CALIFORNIA, IRVINE	Poster Presenter	Registered	
STANKO R BRANKOVIC	UNIVERSITY OF HOUSTON	Discussion Leader	Registered	
NIHARIKA BURLA	UNIVERSITY OF MISSOURI, ROLLA	Poster Presenter	Registered	
SEUNGIL CHO	UNIVERSITY OF MARYLAND	Poster Presenter	Registered	
KYOUNG-SHIN CHOI	PURDUE UNIVERSITY	Speaker	Registered	
PAULA COJOCARU	POLITECNICO DI MILANO	Attendee	Registered	
THOMAS W. CORNELIUS	GESELLSCHAFT FUR SCHWERIONENFORSCHUNG	Poster Presenter	Registered	
RICHARD O CROWTHER	COLUMBIA UNIVERSITY	Attendee	Registered	
CALVIN P DAROSA	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered	
DESPINA DAVIS	LOUISIANA STATE UNIVERSITY	Attendee	Registered	
BANGA O DHEGO	UNIVERSITY OF GEORGIA	Poster Presenter	Registered	
MARCOS C ESTEVES	LOUISIANA STATE UNIVERSITY	Poster Presenter	Registered	
JAN L FRANSAER	KULEUVEN, DEPT. MTM	Discussion Leader	Registered	
YASUHIRO FUKUNAKA	KYOTO UNIVERSITY	Discussion Leader	Registered	
JEREMY J GRAY	LAWRENCE LIVERMORE NATIONAL LABORATORY	Poster Presenter	Registered	
CAROLYNN D GROSH	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered	
LIAN GUO	JOHNS HOPKINS UNIVERSITY	Poster Presenter	Registered	
HELGA C HALVORSEN	OTTAWA UNIVERSITY	Poster Presenter	Registered	
MADOKA HASEGAWA	WASEDA UNIVERSITY	Poster Presenter	Registered	
MELISSA S HASENBANK	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered	
GARY HODES	WEIZMANN INSTITUTE OF SCIENCE	Speaker	Registered	
TAKAYUKI HOMMA	WASEDA UNIVERSITY	Speaker	Registered	
JONG-DAL HONG	UNIVERSITY OF INCHEON	Poster Presenter	Registered	
MASSIMO INNOCENTI	UNIVERSITY OF FLORENCE	Poster Presenter	Registered	
NAGARAJAN JAYARAJU	UNIVERSITY OF GEORGIA	Poster Presenter	Registered	
KAREN L KAVANAGH	SIMON FRASER UNIVERSITY	Speaker	Registered	
SOO KIL KIM	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	Attendee	Registered	
JAY Y KIM	UNIVERSITY OF GEORGIA	Poster Presenter	Registered	
YOUN-GUEN KIM	UNIVERSITY OF GEORGIA	Poster Presenter	Registered	
DAVID M KIRKWOOD	UNIVERSITY OF VIRGINIA	Poster Presenter	Registered	
ELIZABETH A KULP	UNIVERSITY OF MISSOURI-ROLLA	Poster Presenter	Registered	
GABRIELA LACCONI	UNIVERSITY NATIONAL CORDOBA	Poster Presenter	Registered	
ALESSANDRO LAVACCHI	UNIVERSITY OF FLORENCE	Poster Presenter	Registered	
SANG BOK LEE	UNIVERSITY OF MARYLAND	Poster Presenter	Registered	
JAE H LEE	HONGIK UNIVERSITY	Poster Presenter	Registered	
CHI-WOO LEE	KOREA UNIVERSITY	Poster Presenter	Registered	
STUART M LINDSAY	ARIZONA STATE UNIVERSITY	Speaker	Registered	
RAN LIU	UNIVERSITY OF MARYLAND	Poster Presenter	Registered	

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Electrodeposition Program

July 30 - August 4, 2006 Colby-Sawyer College New London, NH

Chair: <u>Jay A Switzer</u> Vice Chair: <u>Thomas P Moffat</u>

Electrodeposition is fast becoming the method of choice for producing films and nanostructures of metals, semiconductors, and metal oxides. In electrodeposition, solid films are deposited at the electrode surface from molecular and ionic precursors in solution. The morphology and orientation of electrodeposited films can be precisely tailored by controlling the pH, solution additives, and applied potential. Remarkable progress has been made in recent years to exploit the "wet" aspects of electrodeposition to produce architectures which may not be accessible to ultra-high-vacuum methods.

The Gordon Research Conference on Electrodeposition is THE conference to attend if you are interested in sharing and learning the most recent developments in electrochemical deposition. The topics at this year's conference are molecular electronics, nucleation and growth, epitaxial electrodeposition, shape control, magnetic materials, nanostructured materials, and electrodeposition for microelectronics. In addition to invited talks by leaders in the field, we will also have two lively poster sessions. Top posters will be selected for a session of short talks on Wednesday evening.

The Electrodeposition GRC is known for a collegial atmosphere which encourages close interaction between young investigators and international experts. At what other conference can you discuss the latest developments in electrodeposition while hiking up Mount Kearsarge? We anticipate having some funds to help graduate students and postdoctoral associates attend the meeting. The attendance of this popular conference is limited, so early registration is strongly advised.

We are grateful for financial support from the following:

Gordon Research Conferences
Army Research Office
Office of Naval Research
IBM
Intel
Brinkmann Instruments
Princeton Applied Research
Nature Publishing Group
University of Missouri-Rolla

SUNDAY	
2:00 pm - 11:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 9:30 pm	Opening Session: Organic Monolayers and Molecular Electronics
	Discussion Leader: Tom Mallouk (Penn State University, USA)
7:30 pm - 8:20 pm	Stuart Lindsay (Arizona State University, USA) "Molecular Electronics - electrochemistry by any other name"
8:20 pm - 8:30 pm	Discussion
8:30 pm - 9:20 pm	Kohei Uosaki (Hokkaido University, Japan) "Deposition of metals on organic monolayers"
9:20 pm - 9:30 pm	Discussion
MONDAY	
7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Nucleation and Growth

Peter Searson (Johns Hopkins University, USA)		Discussion Leader: Jay Switzer (University of Missouri-Rolla, USA)
10:00 am 10:30 am - 11:20 am Gery Stafford (NIST, USA) Suface and growth stresses at solid electrodes" 11:20 am - 11:30 am 11:30 am - 12:20 pm Walther Schwarzacher (University of Bristol, UK) Suface roughness of electrodeposited metal films" 12:20 pm - 12:30 pm 13:30 pm - 9:30 pm 15:20 pm	9:00 am - 9:50 am	
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WEDNESDAY	•	Karen Kavanaugh (Simon Fraser University, Canada)
	8:30 pm - 9:20 pm	Karen Kavanaugh (Simon Fraser University, Canada) "Epitaxial growth of magnetic metals on GaAs via electrodeposition"

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Nanotubes and Nanowires
	Discussion Leader: Yasuhiro Fukunaka (Kyoto University, Japan)
9:00 am - 9:50 am	Tom Mallouk (Penn State University, USA) "Electrodeposition and applications of nanowires"
9:50 am - 10:00 am	Discussion
10:00 am	Coffee Break
10:30 am - 11:20 am	Patrik Schmuki (University of Erlangen, Germany) "TiO2 nanotubes - formation, properties, and smart electrodeposition"
11:20 am - 11:30 am	Discussion
11:30 am - 12:20 pm	Reg Penner (University of California-Irvine, USA) "Nanowire synthesis by electrochemical step edge decoration"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster Session II
6:00 pm	Dinner
7:30 pm - 9:30 pm	Recent News: Poster Summaries and Short Talks
	Discussion London Tom Moffet (NIST LISA)

	Discussion Leader: Tom Moffat (NIST, USA)				
THURSDAY					
7:30 am - 8:30 am	Breakfast				
8:30 am - 9:00 am	Business Meeting				
	(Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair)				
9:00 am - 12:30 pm	Nanocrystals and Nanocomposites				
	Discussion Leader: Jan Fransaer (K.U. Leuven, Belgium)				
9:00 am - 9:50 am	Gary Hodes (Weizmann Institute, Israel) "Electrodeposition of CdSe nanocrystals"				
9:50 am - 10:00 am	Discussion				
10:00 am	Coffee Break				
10:30 am - 11:20 am	Takayuki Homma (Waseda University, Japan) "Electroless fabrication of metal nanoparticles in a microfluidic reactor"				
11:20 am - 11:30 am	Discussion				
11:30 am - 12:20 pm	Jan Talbot (University of California-San Diego, USA) "Electrocodeposition of nanocomposites"				
12:20 pm - 12:30 pm	Discussion				
12:30 pm	Lunch				
1:30 pm - 4:00 pm	Free Time				
4:00 pm - 6:00 pm	Poster Session II				
6:00 pm	Dinner				
7:30 pm - 9:30 pm	Electrodeposition for Microelectronics				
	Discussion Leader: Tom Moffat (NIST, USA)				
7:30 pm - 8:20 pm	Jon Reid (Novellus, USA) "Electrochemical Requirements for Damascene Cu Electroplating"				
8:20 pm - 8:30 pm	Discussion				
8:30 pm - 9:20 pm	Alan West (Columbia University, USA) "Characterization of electrodeposition processes using microfluidics"				
9:20 pm - 9:30 pm	Discussion				

9:00 am Depart

FRIDAY
7:30 am - 8:30 am Breakfast

FINANCIAL STATUS REPORT

(Follow instructions on the back.)

	NCY AND ORGANIZATION	· -·	FEDERAL GRANT		OMB Approved No. 80-R0180		
ELEMENT TO WHICH REPORT IS SUBMITTED ELLEN S. URKLINSKI			IDENTIF TING NO	MDEK	10. 60-10160		
CONTRACTS/GRANTS ADMINISTRATOR			00014-06-1-0803				
OFFICE OF NAVA							
495 SUMMER STR	EET						
BOSTON MA 0221	10-2109						
3. RECIPIENT ORC	GANIZATION (Name and con	mplete 4.	EMPLOYER IDENTI	FICATION N	NUMBER		
address, including	Zir code)	05	0300482				
Gordon Research Conf	erences	5. 1	RECIPIENT ACCOU	NT NUMER	OR IDENTIFYING NO.		
512 Liberty Lane	202						
West Kingston, RI 028	392	6	FINAL REPORT		7. BASIS		
			YES	NO	X CASH	ACCRU.	AL
8. PROJECT/GRANT	PERIOD (See instructions)		COVERED BY THIS				
FROM (Month, day,	TO (Month, day, year)	FROM (Mor	nth, day, year)	Te	O (Month, day, year)		
year)	09/30/2006	05/10/20	006		09/30/2006		
05/10/2006		<u> </u>					
10. STATUS OF FUNI							
a. Net outlays previob. Total outlays this	· •					\$	0.00
							5,000
c. Less: Program inc							0.00
-	port period (Line a minus line	e c) 					5,000
	(Line a plus line d)						5,000
f. Less: Non-Federa							0
g. Total Federal share of outlays (Line e minus line f)						5,000	
h. Total unliquidated							0.00
	l share of unliquidated obliga						0.00
	nliquidated obligations (Line						0.00
	e of outlays and unliquidated		me g pius j)				5,000
							5,000
	ce of Federal funds (Line l m OF RATE	inus line k)					0.00
	X" in appropriate box)	PROVIS	SIONAL PREDET	ERMINED	FINAL FIXED		
EXPENSE						<u> </u>	
b. RATE	ch any explanations deemed r		OTAL AMOUNT		RAL SHARE		
	overning legislation.)	iccessary or inf	ormation required by i	cuciai spons	ornig agency in		
Candan Bassan	-b Conformer Elector						
Gordon Resear	ch Conference on Electro	aeposition					
13. CERTIFICATION	1	OF AUTHORIZ	ZED CERTIFYING	DATE REP	ORT SUBMITTED		
I certify to the best of n		0			01.0007		
knowledge and belief th		Para	Draw	Novermber	21, 2006		
report is correct and conthat all outlays and	implete and	(7)					
inat an outlays and			` ()				
unliquidated obligation		INTED NAME	E AND TITLE	TELEPHO	NE (Area code, number, and	extension)	
the purposes set forth in the				401 803 4011			
award documents DISTRIBUTION: Copy 1	Nancy Ryan	Gray, Direct		D FORM 269	401-783-4011		********
	- Grants Section, FAAB				(7-76) anagement and Budget		
	- Grantee		Cir. No. A-				